

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 77-128

WASTE DISCHARGE REQUIREMENTS FOR:

COUNTY OF SOLANO AND  
TWIN CREEKS  
SOLANO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter Board), finds that:

1. Twin Creeks, a partnership, submitted a report of waste discharge dated September 9, 1976. Twin Creeks is developing a 39 unit condominium project in the unsewered Green Valley area of Solano County near the confluence of Wild Horse and Green Valley Creeks. It is proposed to dispose of treated domestic effluent to sub-surface leachfields on the property and on an adjacent easement of the Greenvalley Country Club, as shown on Attachment A, which is hereby made a part of this Order. The treated effluent will be from an on-site community sewage treatment system with a rated capacity of 9,000 gallons per day. The expected daily **treated wastewater flow** is approximately 6,000 gallons per day. Domestic water is supplied from the City of Vallejo's Berreyessa transmission line.
2. This Board's Resolution No. 768 requested that local government not allow subdivision development with its own community sewage system unless:
  - "a. The subdivision, trailer park, or similar development is within a pre-existing governmental sewerage entity (city or district) that has authority to and has stated its intent to assume responsibility for the planning, construction, operation, and maintenance of the sewerage system; and
  - b. The governmental sewerage entity (city or district) has developed a master plan for sewerage which includes the subdivision, trailer park, or similar development;..."
3. On June 21, 1977, the County of Solano Board of Supervisors agreed to assume responsibility for the operation and maintenance of the treatment system.
4. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April, 1975. The Basin Plan contains water quality objectives for the surface and ground waters of the Basin. This Order implements the Basin Plan objectives.

5. The beneficial uses of Green Valley and Wild Horse Creeks are:
  - a. Recreation
  - b. Wildlife Habitat
  - c. Esthetic Enjoyment
6. Potential beneficial uses of groundwaters in Green Valley are:
  - a. Irrigation
  - b. Industrial Supply
  - c. Domestic Supply
7. The County of Solano has prepared a negative declaration for this project in accordance with the California Environmental Quality Act (Public Resources Code Section 21000 et seq.) and the State Guidelines. The Board has reviewed the negative declaration and determined there will be no substantial adverse changes in the environment as a result of the project.
8. This Board has notified the County of Solano, Twin Creeks, interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
9. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED that the County of Solano and Twin Creeks, hereinafter the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Waste Discharge Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(a) of the California Water Code.
2. Bypassing of wastewater from the collection system is prohibited. If bypassing should occur, the discharger shall notify this Board's Executive Officer as soon as possible of said bypass.
3. The discharge of sewage or other wastes to waters of the State is prohibited.
4. Wastes discharged to leachfields:
  - a. Shall remain below ground at all times.
  - b. Shall not cause degradation of groundwater suitable for domestic or agricultural use.
  - c. Shall not leach into waters of the State.

5. The treated wastes as discharged from the discharger's treatment plant shall meet the following quality limits at all times:

5-day BOD	50.0 mg/l maximum
Coliform Organisms	Median MPN shall not exceed 240 coliform organisms per 100 milliliters of sample at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven (7) analyses.

6. The discharge of wastes in excess of 9,000 gallons per day from the wastewater reclamation treatment facilities is prohibited.

C. Provisions

1. No wastes shall be discharged until it is demonstrated to the satisfaction of the Executive Officer of the Board that:
  - a. Institutional arrangements are complete to ensure continuous, proper operation and maintenance under all situations to include provisions for breakdowns and replacement. Such institutional arrangements shall include restrictions, conditions and covenants developed pursuant to the agreement of June 21, 1977 between the County of Solano and Twin Creeks.
  - b. Facilities are operational to ensure that all specifications, provisions, and prohibitions of this Order will be met.
2. The County of Solano shall:
  - a. Dedicate sufficient staff time to supervise and monitor the operations and maintenance of the reclamation facilities.
  - b. Sign and submit all reports required by the Board including self-monitoring reports.
  - c. Participate in and approve the selection of any third parties hired for operating or maintaining reclamation facilities, or for performing other services related to waste treatment facilities.
3. The discharger shall submit to the Executive Officer a contingency plan for the continuous operation of facilities for the collection, treatment, and disposal of wastes pursuant to the Regional Board's Resolution No. 74-10 by December 1, 1977.
4. Wastewater treatment facilities shall be protected from flooding from a storm having a predicted frequency of once in 100 years.
5. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of at a legal point of disposal, and in accordance with the provisions of Division 7.5 of the California Water Code. For the purpose of this requirements, a legal point of disposal is defined as one for which waste discharge requirements have been prescribed by a regional water quality control board and which is in full compliance therewith.

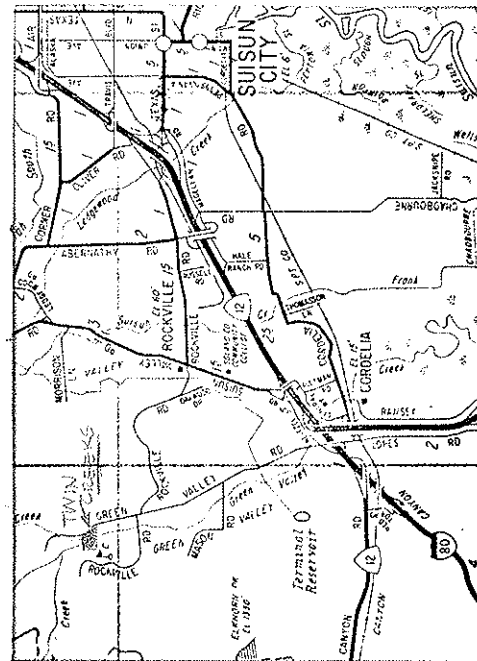
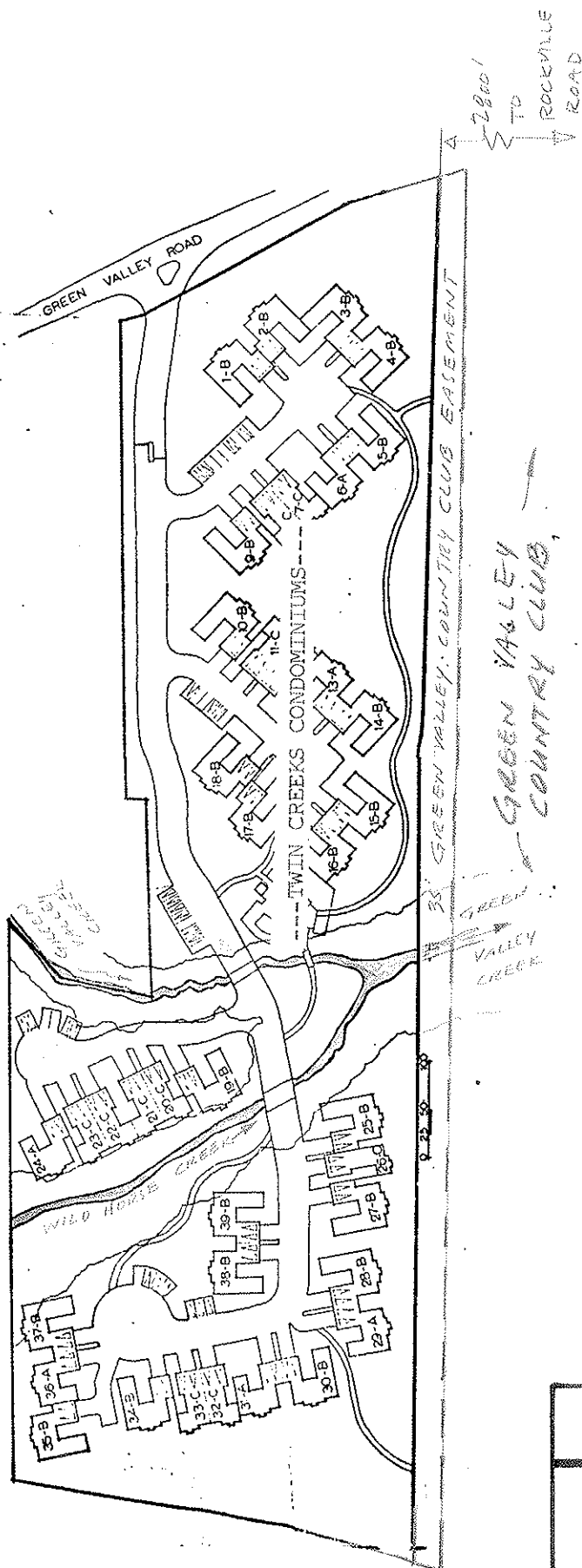
6. All equipment, including pumps, piping, and valves, etc., which may at any time contain or apply waste shall be adequately and clearly identified with warning signs. The discharger shall make all necessary provisions, in addition, to inform the public that the liquid contained or applied is sewage and is unfit for human consumption.
7. All discharges authorized by this Order shall be consistent with the terms and conditions of this Order. The discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this Order shall constitute a violation of the terms and conditions of this Order.
8. The discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Administrative Code.
9. The discharger shall file with the Board technical reports on self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Program as directed by the Executive Officer.
10. The discharger shall permit the Regional Board:
  - (a) Entry upon premises in which an effluent source is located or in which any required records are kept,
  - (b) Access to copy any records required to be kept under terms and conditions of this Order,
  - (c) Inspection of monitoring equipment or records, and
  - (d) Sampling of any discharge.
11. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on **September 20, 1977.**

FRED H. DIERKER  
Executive Officer

Attachments:

A - Map  
Resolution No. 74-10  
**Self-Monitoring Program**



LOCATION MAP

STATE OF CALIFORNIA		
REGIONAL WATER QUALITY CONTROL BOARD		
SAN FRANCISCO BAY REGION		
ATTACHMENT 'A'		
COUNTY OF SOLANO		
TWIN CREEKS		
WASTEWATER RECLAMATION		
ORDER NO. 77-128		
DRAWN BY: SIM	DATE: 5/3/77	DRWG. NO. A

2129.2034

STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

RESOLUTION NO. 74-10

POLICY REGARDING WASTE DISCHARGER'S RESPONSIBILITIES TO DEVELOP  
AND IMPLEMENT CONTINGENCY PLANS TO ASSURE CONTINUOUS OPERATION OF  
FACILITIES FOR THE COLLECTION, TREATMENT, AND DISPOSAL OF WASTE

WHEREAS, this Regional Board has adopted policies and requirements stating its intent to protect the beneficial water uses within the San Francisco Bay Region and prohibiting the discharge of untreated or inadequately treated wastes; and

WHEREAS, conditions including process failure, power outage, employee strikes, physical damage caused by earthquakes, fires, vandalism, equipment, and sewer line failures, and strikes by suppliers of chemicals, etc., or maintenance services can result in the discharge of untreated or inadequately treated wastes; and

WHEREAS, the development and implementation of contingency plans for the operation of waste collection, treatment, and disposal facilities under such conditions should insure that facilities remain in, or are rapidly returned to, operation in the event of such an incident and measures are taken to clean up the effects of untreated or inadequately treated wastes.

NOW, THEREFORE BE IT RESOLVED, that this Regional Board will require each discharger as a provision of its NPDES Permit to submit within 120 days after the adoption of the permit a contingency plan acceptable to the Regional Board's Executive Officer to include at least the following:

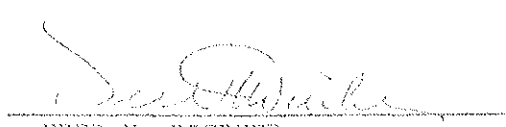
- A. Provision of personnel for continued operation and maintenance of sewerage facilities during employee strikes or strikes against contractors providing services.
- B. Maintenance of adequate chemicals or other supplies and spare parts necessary for continued operation of sewerage facilities.
- C. Provisions of emergency standby power.
- D. Protection against vandalism.
- E. Expeditionous action to repair failures of or damage to equipment and sewer lines.
- F. Report of spills and discharges of untreated or inadequately treated wastes including measures taken to clean up the effects of such discharges.
- G. Programs for maintenance replacement and surveillance of physical condition of equipment, facilities, and sewer lines.

BE IT FURTHER RESOLVED, pursuant to Sections 13267 and 13268, dischargers with NPDES Permits now in effect are required to develop and submit a contingency plan as described above, by December 1, 1974.

BE IT FURTHER RESOLVED, that the discharge of pollutants in violation of an NPDES Permit where a discharger has failed to develop and implement a contingency plan as described above will be the basis for considering the discharge a willful and negligent violation of the Permit and action pursuant to Section 13387 of the California Water Code.

BE IT FURTHER RESOLVED, that it is the intent of the Regional Board to eventually require all waste dischargers in the San Francisco Bay Region to develop contingency plans, and those not specifically covered by this resolution are urged to voluntarily develop and implement plans including the above-named elements.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 16, 1974.

  
FRED H. DIERKER  
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

County of Solano

Twin Creeks

Solano County

ORDER NO. 77-128

CONSISTS OF

PART A dated 7/74

AND

PART B

October 13, 1977

Date ordered



## PART B

### I. DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES AND OBSERVATIONS

Analyses, observations, and examinations shall be performed according to the specifications shown in Table I.

#### A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-001	At any point in the outfall from the treatment facilities between the point of disposal and the point at which all waste tributary to that discharge is present..

#### B. RECEIVING WATERS

<u>Station</u>	<u>Description</u>
C-1	At a point in Green Valley Creek just prior to leaving the discharger's property when flows are sustained.
C-1-R	At a point in Green Valley Creek after just entering the discharger's property when flows are sustained.
C-2-R	At a point in Wild Horse Creek after just entering the dischargers property when flows are sustained.

#### C. LAND OBSERVATION

<u>Station</u>	<u>Description</u>
L-1 thru L-'n'	Anywhere surfacing wastes appears. A sketch showing the locations of these stations shall accompany each report.
P-1 thru P-n	Located along the periphery of the treatment plant, 50 feet from the plant, not to exceed 100 feet from each other. A sketch showing the locations of these stations shall accompany each report.

D. GROUNDWATER

G-1, G-2

Two groundwater monitoring wells. Location to be discussed with discharger. Wells to be constructed in conformance with Department of Water Resources and Solano County Health Department specifications. A well drilling log shall be submitted for the wells established for this program. The wells shall be perforated and have a minimum diameter of four inches. The monitoring wells shall have sufficient depth to determine the level of subsurface water nearest to the ground surface. Wells shall be pumped for a minimum of one minute before collecting samples.

II. REPORTS TO BE FILED WITH THE REGIONAL BOARD

A. VIOLATIONS OF REQUIREMENTS

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- a) Maintenance work, power failures, or breakdown of units, treatment equipment, or
- b) accidents caused such as acts of nature.

The discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

- B. Regular Self-Monitoring Reports shall be sent to the Regional Board monthly not later than the 15th of the following month.
- C. Self-Monitoring Reports shall be signed by a County Official as the responsible party as detailed in Part A - paragraph F.c.a.(4).

III. MODIFICATION OF PART "A", DATED 7/74

- A. Exclusions: Paragraph E.4.b.
- B. Modifications: Paragraph F.3.e. delete EPA submittal. Submit original to Regional Board.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 77-128.
2. Has been ordered by the Executive Officer in writing on October 13, 1977 and becomes effective upon discharge.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER  
Executive Officer

Date Ordered October 13, 1977

Attachment:  
Table I

TABLE I  
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001	C-1, C-1-R, C-2-R	L and P Observation	G-1, G-2
TYPE OF SAMPLE	Grab	Grab		Grab
Flow Rate (mgd)	D			
BOD, 5-day, 20° C, (mg/l & kg/day)	W			
Chlorine Residual & Dosage (mg/l & kg/day)				
Settleable Matter (ml/1-hr. & cu. ft./day)	2/M			
Total Suspended Matter (mg/l & kg/day)	2/M			
Oil & Grease (mg/l & kg/day)	2/M			
Coliform (Total) (MPN/100 ml) per req't	W	W		2/Y
Fish Toxicity, 96-hr. TL <sub>50</sub> % Survival in undiluted waste				
Ammonia Nitrogen (mg/l & kg/day)	2/Y			2/Y
Nitrate Nitrogen (mg/l & kg/day)	2/Y			2/Y
Nitrite Nitrogen (mg/l & kg/day)	2/Y			2/Y
Total Organic Nitrogen (mg/l & kg/day)	2/Y			2/Y
Total Phosphate (mg/l & kg/day)	2/Y			2/Y
Turbidity (Jackson Turbidity Units)				
pH (units)	2/M			2/Y
Dissolved Oxygen (mg/l and % Saturation)	W			
Temperature (°C)				
Apparent Color (color units)				
Secchi Disc (inches)				
Sulfides (if DO ≤ 2.0 mg/l) Total & Dissolved (mg/l)	W			2/Y
Arsenic (mg/l & kg/day)				
Cadmium (mg/l & kg/day)				
Chromium, Total (mg/l & kg/day)				
Copper (mg/l & kg/day)				
Cyanide (mg/l & kg/day)				
Silver (mg/l & kg/day)				
Lead (mg/l & kg/day)				

TABLE I (continued)  
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001		C-1, C-1-R, C-2-R		L and P		G-1, G-2					
TYPE OF SAMPLE	Grab		Grab		Observation		Grab					
Mercury (mg/l & kg/day)												
Nickel (mg/l & kg/day)												
Zinc (mg/l & kg/day)												
PHENOLIC COMPOUNDS (mg/l & kg/day)												
All Applicable (1) Standard Observations			W		W		2/Y					
Bottom Sediment Analyses and Observations												
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)												

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample  
 C-24 = composite sample - 24-hour  
 C-X = composite sample - X hours  
       (used when discharge does not  
       continue for 24-hour period)  
 Cont = continuous sampling  
 DI = depth-integrated sample  
 BS = bottom sediment sample  
 O = observation

TYPES OF STATIONS

I = intake and/or water supply stations  
 A = treatment facility influent stations  
 E = waste effluent stations  
 C = receiving water stations  
 P = treatment facilities perimeter stations  
 L = basin and/or pond levee stations  
 B = bottom sediment stations  
 G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurrence	2/H = twice per hour	2H = every 2 hours
H = once each hour	2/W = 2 days per week	2D = every 2 days
D = once each day	5/W = 5 days per week	2W = every 2 weeks
W = once each week	2/M = 2 days per month	3M = every 3 months
M = once each month	2/Y = once in March and once in September	Cont = continuous
Y = once each year	Q = quarterly, once in March, June, Sept. and December	

(1) Observations shall include check for evidence of seepage.